

Work Order ID 158624

Tuesday, March 28, 2017 12:52:53 PM

158624

Page 1

Item ID: 647.7301 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC135 T1/P1 Cable Cutters System
Start Date: 4/3/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 4/24/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULE/C

Approvals: Process Plan: UMF Date: 17-3-28 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	C								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7301								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
6
9-89

MAR 29 2017

DAS
27
9-89

APR 25 2017

DAS
6
9-89

APR 03 2017

DAS
28
9-89DAS
27
9-89

APR 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
3-98 DQA				3-98 DQA				Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER :			

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Page 2

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Revision ID: Stop ***NS2***
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Start Date: 4/3/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 4/24/2017 Req'd Qty: 1.00 ***1*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging					DAS 27 9-89			
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7301 Location : FG109 <i>sold</i>					APR 25 2017			
140		0.00				DAS 21 9-89			
140	QC21- Final Inspection - Work Order Release								
QC	Memo	0.00							APR 28 2017
Quality Control						DAS 21 9-89			APR 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM
REV:B 16.04.26 sa per dwg revB DD VERF:JLM
16.11.15 dwg rev.c DD VERF:JLM

IPP
IPP REV:C

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647 7401* Upper Cutter Assembly		Manufactured	No			110	Each	2.0000	1	1			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck029			2					
					137316			2					
647.7501 *647 7501* Lower Cutter Assembly		Manufactured	No			110	Each	0.0000	1	1			
									**				
647.1701 *647 1701* Skid Deflector Assembly		Manufactured	No			110	Each	6.0000	2	2			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK033			6					
					132978			2					
					138396			2					
					141079			2					
647.1601 *647 1601* Wiper Deflector Aft		Manufactured	No			110	Each	4.0000	1	1			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK091			4					
					155569			4					

26

DAS 28 6 9-89
APR 03 2017

DAS 28 6 9-89
APR 05 2017

DAS 28 6 9-89
APR 03 2017

DAS 28 6 9-89
APR 03 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
☐ OTHER : _____					

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.1610 Manufactured No

110 Each 8.0000 1 1

647 1610

Wiper Deflector Fwd

**

APR 03 2017

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK091

8

125082

7

M130388

1

647.1913 Manufactured No

110 Each 15.0000 1 1

647 1913

Tee

**

APR 03 2017

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK093

15

114126

3

92229

10

94139

2

647.1915 Manufactured No

110 Each 24.0000 1 1

647 1915

Support Angle

**

APR 03 2017

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK093

24

114127

6

92230

6

M130388

12

647.1814 Manufactured No

110 Each 30.0000 1 1

647 1814

Gusset LH

**

APR 03 2017

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck122A

30

92075 110

6

M130388

24

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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OTHER : ☐					

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Tuesday, March 28, 2017 12:52:51 PM

Page 3

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.1815

Manufactured No

110

Each

28.0000

1

1

647 1815

Gusset RH

**

APR 03 2017

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK110

4

92076

4

cck122A

24

M130388

24

647.7702

Manufactured No

110

Each

10.0000

2

2

647 7702

Strut Assembly

**

APR 03 2017

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK076

10

154420

8

154668

2

647.7701

Manufactured No

110

Each

6.0000

2

2

647 7701

Strut Assembly

**

APR 03 2017

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK114

6

153191

1

154421

5

647.1818

Manufactured No

110

Each

27.0000

1

1

647 1818

Nose Door Spacer

**

APR 03 2017

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK110

3

92079

3

cck122A

24

M130388

24

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Page 3

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WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Work Order ID: 158624

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Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.1810 Manufactured No

110 Each 17.0000 1 1

647 1810

Nose Door Doubler

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK108

17

92070

3

M130388

14

647.0112 Manufactured No

110 Each 53.0000 4 4

647 0112

Strut Bracket

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

32

155480

32

CCK107

3

154204

3

CCK108A

18

156756

18

647.7910 Manufactured No

110 Each 4.0000 2 2

647 7910

Angle Bracket

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK115

4

153512

4

647.7911 Manufactured No

110 Each 9.0000 2 2

647 7911

Bracket

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK115

9

M130388

9

Tuesday, March 28, 2017 12:52:51 PM

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Page 4

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
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Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
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Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.7912 Manufactured No

110 Each

0.0000

4

4

**

647 7912

Clip

647.7913 Manufactured No

110 Each

0.0000

2

2

**

647 7913

Doubler

647.7914 Manufactured No

110 Each

2.0000

1

1

**

647 7914

Bracket

Location

Loc Qty

Loc Code

CCK115

2

M130388

2

647.7915 Manufactured No

110 Each

11.0000

1

1

**

647 7915

Bracket

Location

Loc Qty

Loc Code

cck116

11

M130388

11

647.7916 Manufactured No

110 Each

20.0000

2

2

**

647 7916

Bracket

Location

Loc Qty

Loc Code

cck116

20

M130388

20

DAS
6
27
9-89
157914

APR 28 2017

DAS
28
9-89

158345

APR 13 2017

DAS
28
9-89

DAS
6
9-89

APR 13 2017

DAS
28
9-89

DAS
6
9-89

APR 03 2017

DAS
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9-89

DAS
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DAS
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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
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				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 6

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.7917 Manufactured No

110 Each 15.0000 1 1

647 7917

Bracket

**

DAS

28

9-89

DAS APR 03 2017

6

9-89

Location

Loc Qty

Loc Code

cck116

15

131356

14

M130388

1

647.7918 Manufactured No

110 Each 13.0000 1 1

647 7918

Bracket

**

APR 03 2017

DAS

28

9-89

Location

Loc Qty

Loc Code

cck116

13

119630

12

M130388

1

647.7819 Manufactured No

110 Each 7.0000 1 1

647 7819

Cross Bracket Fwd

**

APR 03 2017

DAS

28

9-89

Location

Loc Qty

Loc Code

CCK115

7

M130388

7

647.7820 Manufactured No

110 Each 6.0000 1 1

647 7820

Cross Bracket Aft

**

APR 03 2017

DAS

28

9-89

Location

Loc Qty

Loc Code

cck066

6

132172

4

M130388

2

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.7818

Manufactured No

110

Each

14.0000

1

1

647 7818

Mounting Channel

**

DAS 27 9-89
APR 03 2017
DAS 28 9-89

Location

Loc Qty

Loc Code

CCK067

14

120939

5

123161

7

M130388

2

647.7821

Manufactured No

110

Each

8.0000

1

1

647 7821

Eye Bolt Fitting LH

**

DAS 27 9-89
APR 03 2017
DAS 28 9-89

Location

Loc Qty

Loc Code

CCK115

2

121378

2

CCK121

6

130388

6

647.7822

Manufactured No

110

Each

8.0000

1

1

647 7822

Eye Bolt Fitting RH

**

DAS 27 9-89
APR 03 2017
DAS 28 9-89

Location

Loc Qty

Loc Code

CCK121

8

M130388

8

647.1914

Manufactured No

110

Each

3.0000

1

1

647 1914

Bracket

**

DAS 27 9-89
APR 03 2017
DAS 28 9-89

Location

Loc Qty

Loc Code

CCK110

3

153314

3

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Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																	
OTHER : _____																									

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.1602 Manufactured No

110 Each 17.0000 1 1

647 1602

Doubler Assembly

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

17

M130388

17

647.1811 Manufactured No

110 Each 41.0000 2 2

647 1811

Spacer

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK108

41

92072

7

M130388

34

647.1812 Manufactured No

110 Each 262.0000 13 13

647 1812

Shim

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

262

92073

64

M130388

198

647.2510 Manufactured No

110 Each 107.0000 4 4

647 2510

Sleeve

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ckk122A

102

125082

60

M130388

42

Q

5

125082

3

92233

2

DAS
6
9-89

APR 11 3 2017

DAS
28
9-89

DAS
6
9-89

APR 11 3 2017

DAS
28
9-89

DAS
6
9-89

APR 11 3 2017

DAS
28
9-89

DAS
6
9-89

APR 10 3 2017

DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/PI Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

647.2511 Manufactured No

110 Each 49.0000 4 4

647 2511

Nut

**

APR 20 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

quarantine

49

110638

26

92235

6

93354

9

M130388

8

159807

DAS 27
9-89

647.3201 Manufactured No

110 Each 0.0000 1 1

647 3201

Grounding Cable Assembly

**

APR 03 2017

DAS 28
6 9-89

601.3011 Manufactured No

110 f 47.3000 1.4 1.4

601 3011

P-Seal

**

DAS 6
9-89

APR 03 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

CCK095

47.2

91709

47.2

CCK099

0.1

M130388

0.1

1.41

DAS 38
9-89

AS 18
89

CUT AT 16.00"

MS21266-2N Purchased No

110 Each 39.0000 1 1

MS21266-2N

Grommet

**

DAS 6
9-89

APR 03 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST294

39

123900

39

DAS 27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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☐ Wrong Stock Pulled																																																																									
☐ Out of Sequence																																																																									
☐ Off-set																																																																									
☐ Misabeled																																																																									
☐ Fit/Function																																																																									
☐ Misaligned/off center																																																																									
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☐ Drawing																																																																									
☐ Finish																																																																									
☐ Misread																																																																									
☐ Turning Sequence																																																																									
								OTHER :																																																																	

Picklist Print

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Page 10

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No

110 Each 31.0000 2 2

AN44-5A

Eyebolt

**

DAS 6 28
9-89 9-89
APR 03 2017

Location

Loc Qty

Loc Code

ST339

31

m136047

7

m136866

12

m137075

12

AN44-12A Purchased No

110 Each 4.0000 2 2

AN44-12A

Eyebolt

**

DAS 6 28
9-89 9-89
APR 03 2017

Location

Loc Qty

Loc Code

ST339

4

m136579

4

AN665-34R Purchased No

110 Each 24.0000 4 4

AN665-34R

Clevis

**

DAS 6 28
9-89 9-89
APR 03 2017

Location

Loc Qty

Loc Code

ST330

24

153852

24

601.3006 Purchased No

110 Each 8.0000 2 2

601.3006

Camloc Receptacle - 26R 16-1

**

DAS 6 28
9-89 9-89
APR 03 2017

Location

Loc Qty

Loc Code

CCK098

8

M130388

8

601.3005 Manufactured No

110 Each 0.0000 2 2

601.3005

Camloc Retainer - 2600-LW

**

DAS 6 28
9-89 9-89
APR 03 2017

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Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

Picklist Print

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Page 11

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

601.3004 Purchased No

110 Each 8.0000 2 2

601 3004

Camloc Stud - 26S8-11

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

8

M130388

8

MS21047-3

Purchased No

110 Each 228.0000 12 12

MS21047-3

Nut Plate

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

228

m136442

3

m136781

25

m136986

100

m137075

100

AN3-4A

Purchased No

110 Each 228.0000 2 2

AN3-4A

Bolt

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

228

m136579

228

AN3-11A

Purchased No

110 Each 410.0000 4 4

AN3-11A

Bolt

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

250

153855

150

m136192

100

ST349

160

153855

160

Tuesday, March 28, 2017 12:52:51 PM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Picklist Print

Page 12

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN4CH6A Purchased No

110 Each 33.0000 1 1

AN4CH6A

Bolt

**

DAS 6 27 9-89

APR 03 2017

DAS 6 27 9-89

Location

Loc Qty

Loc Code

ST345

33

123525

13

m126176

20

AN4C7A Purchased No

110 Each 70.0000 4 4

AN4C7A

BOLT

**

DAS 6 27 9-89

APR 03 2017

DAS 6 27 9-89

Location

Loc Qty

Loc Code

OVER002

54

m136295

54

ST345

16

123900

4

125388

4

m135864

8

NAS6603-12 Purchased No

110 Each 123.0000 4 4

NAS6603-12

Bolt

**

DAS 6 27 9-89

APR 03 2017

DAS 6 27 9-89

Location

Loc Qty

Loc Code

st552

123

123900

88

m136301

35

NAS6603-16 Purchased No

110 Each 68.0000 4 4

NAS6603-16

Bolt

**

DAS 6 27 9-89

APR 03 2017

DAS 6 27 9-89

Location

Loc Qty

Loc Code

st552

68

153860

18

m133523

50

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Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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Environment ☐	No Re-verification ☐																																																																			
Design ☐	Operator ☐																																																																			
Doc/Data ☐	Offset/Setup ☐																																																																			
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Material ☐	Use for Testing ☐																																																																			
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☐ Turning Sequence																																																																				
☐ OTHER : _____																																																																				

Picklist Print

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

NAS6604-66 Purchased No

110 Each 74.0000 4 4

NAS6604-66

Bolt

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST553

74

124328

32

M130388

42

MS21042-08 Purchased No

110 Each 0.0000 7 7

MS21042-08

USE MS21042L08

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

MS21042-3 Purchased No

110 Each 0.0000 34 34

MS21042-3

Nut

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

MS21042L4 Purchased No

110 Each 1,249.000 8 8

MS21042L4

Nut

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

172

m135058

172

OVER007

500

m136986

500

ST303

567

m136450

500

m136838

67

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Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Page 14

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN316C4R

Purchased

No

110

Each

39.0000

4

4

AN316C4R

Nut, 1/2in

DAS
27
9-89

Location

Loc Qty

Loc Code

ST331

39

153850

39

647.8510

Manufactured

No

110

Each

0.0000

18

18

647 8510

Insert

647.8511

Manufactured

No

110

Each

1.0000

4

4

647 8511

Insert

Location

Loc Qty

Loc Code

cck116

1

M130388

1

647.8512

Manufactured

No

110

Each

6.0000

4

4

647 8512

Insert

Location

Loc Qty

Loc Code

cck116

6

M130388

6

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

**

157771

DAS
6
9-89

APR 13 2017

DAS
28
9-89

**

3X 158396

DAS
6
9-89

APR 03 2017

DAS
28
9-89

**

DAS
6
9-89

APR 03 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

Picklist Print

Page 15

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L5

Purchased

No

110

Each

373.0000

4

4

MS21042L5

Nut

**

DAS
6
9-89

DAS
28
9-89

APR 03 2017

Location

Loc Qty

Loc Code

GA

21

m127813

21

ST303

352

m136450

2

m136866

25

m136986

150

m137075

75

m137164

100

DAS
27
9-89

4

DAS
6
9-89

MS27039-08-07

Purchased

No

110

Each

93.0000

1

1

MS27039-08-07

SCREW

**

DAS
28
9-89

APR 03 2017

Location

Loc Qty

Loc Code

ST278

93

m132035

93

DAS
27
9-89

1

MS27039-08-13

Purchased

No

110

Each

352.0000

4

4

MS27039-08-13

Screw

**

DAS
6
9-89

DAS
28
9-89

APR 03 2017

Location

Loc Qty

Loc Code

over006

325

153849

325

ST278

27

m136199

27

DAS
27
9-89

4

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Shop Packet Print

Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-16 Purchased No

110 Each 77.0000 2 2

MS27039-08-16

SCREW PAN HD

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA 48
112466 48
ST278 29
M130388 29

110 Each 34.0000 3 3

MS27039-1-07 Purchased No

MS27039-1-07

Screw

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA 2
125654 2
ST281 32
m135948 32

110 Each 95.0000 12 12

MS27039-1-09 Purchased No

MS27039-1-09

Screw

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001 32
18057 32
GA 50
124859 50
ST280 13
m135056 13

12

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

APR 03 2017

APR 03 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

315.0000

6

6

MS27039-1-10

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

15

m129541

15

ST280

300

m137164

300

MS27039-1-12

Purchased

No

110

Each

66.0000

2

2

MS27039-1-12

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

66

m136537

66

MS27039-1-14

Purchased

No

110

Each

648.0000

4

4

MS27039-1-14

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

90

120449

90

over006

500

124326

500

ST280

58

124326

58

**

APR 03 2017

DAS
6
9-89

DAS
28
9-89

**

APR 03 2017

DAS
6
9-89

DAS
28
9-89

**

APR 03 2017

DAS
6
9-89

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-15

Purchased

No

110

Each

141.0000

1

1

MS27039-1-15

Screw

**

APR 03 2017

DAS 28 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

65

m127916

1

m136554

64

ST280

76

m136406

76

MS27039-1-16

Purchased

No

110

Each

175.0000

4

4

MS27039-1-16

Screw

**

APR 03 2017

DAS 28 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

over006

50

m137061

50

ST280

125

m136851

100

m136975

25

MS27039-1-17

Purchased

No

110

Each

154.0000

2

2

MS27039-1-17

Screw (601.1954)

**

APR 03 2017

DAS 28 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

150

m127831

150

ST280

4

120142

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____					

Picklist Print

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Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S54

Purchased

No

110

Each

198.0000

6

6

MS24694-S54

SCREW

**

APR 03 2017

Location

Loc Qty

Loc Code

ST284

198

153846

157

m135948

41

601.2999

Manufactured

No

110

Each

34.0000

3

3

601 2999

Screw

**

APR 03 2017

Location

Loc Qty

Loc Code

CCK098

34

93369

34

CCR264SS-3-03

Purchased

No

110

Each

263.0000

24

24

CCR264SS-3-03

Cherry Rivet

**

APR 03 2017

Location

Loc Qty

Loc Code

LG001

13

m134023

13

ST321

250

m137164

250

CCR274SS-3-03

Purchased

No

110

Each

73.0000

4

4

CCR274SS-3-03

Rivet

**

APR 03 2017

Location

Loc Qty

Loc Code

ST321

73

123785

73

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Picklist Print

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Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2 Purchased No

110 Each 154.0000 4 4

CR3213-4-2

Cherry Rivet

**

Location	Loc Qty	Loc Code
CCK003	100	
m136986	100	
ST320	54	
m135704	6	
m135979	48	

APR 03 2017

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

CR3213-4-3 Purchased No

110 Each 392.0000 24 24

CR3213-4-3

Rivet, Cherry

**

Location	Loc Qty	Loc Code
CCK003	300	
m136851	300	
GA	92	
m136042	92	

APR 03 2017

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

CR3213-4-4 Purchased No

110 Each 250.0000 16 16

CR3213-4-4

Rivet, Cherry

**

Location	Loc Qty	Loc Code
ST319	250	
m136301	250	

APR 03 2017

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

CR3213-4-5 Purchased No

110 Each 3.0000 8 8

CR3213-4-5

Rivet

**

Location	Loc Qty	Loc Code
ST319	3	
M129913	3	

APR 03 2017

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

136406x6
136044x2 X2

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-6

Purchased

No

110

Each

322.0000

17

17

CR3213-4-6

Rivet

**

APR 02 2017

DAS 28 89
6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK003

200

M135978

100

M136199

100

ST319

122

M130388

17

M131800

105

17

CR3213-5-3

Purchased

No

110

Each

118.0000

16

16

CR3213-5-3

Cherry Rivet

**

APR 03 2017

DAS 28 89
6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK003

100

m136851

100

ST319

18

m136537

18

16

CR3213-5-4

Purchased

No

110

Each

129.0000

12

12

CR3213-5-4

Cherry Rivet

**

APR 03 2017

DAS 28 89
6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST319

117

123785

17

m128199

100

WA003

12

117543

12

12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Page 22

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

CR3522-4-3

Purchased

No

110

Each

18.0000

8

8

CR3522-4-3

Rivet

**

APR 03 2017

DAS 28
6 28
9-89-89

Location

Loc Qty

Loc Code

ST318

18

124876

18

CR3522-5-3

Purchased

No

110

Each

76.0000

8

8

CR3522-5-3

Rivet

**

APR 03 2017

DAS 28
6 28
9-89-89

Location

Loc Qty

Loc Code

ST317

76

m136199

76

CR3212-5-6

Purchased

No

110

Each

100.0000

2

2

CR3212-5-6

Cherry Rivet

**

APR 03 2017

DAS 28
6 28
9-89-89

Location

Loc Qty

Loc Code

CCK003

100

124259

100

NAS1149FN832P

Purchased

No

110

Each

1,634.000

14

14

NAS1149FN832P

Washer

**

APR 03 2017

DAS 28
6 28
9-89-89

Location

Loc Qty

Loc Code

GA

347

M135058

232

M136182

115

ST263

1287

M136866

1287

DAS 27
9-89

Tuesday, March 28, 2017 12:52:52 PM

Shop Packet Print

Page 22

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

2,660.000

86

86

NAS1149F0332P

Washer

**

APR 03 2017

Location

Loc Qty

Loc Code

GA

335

m133709

335

ST262

2325

m136835

525

m137075

1800

NAS1149C0432R

Purchased

No

110

Each

1,431.000

8

8

NAS1149C0432R

WASHER

**

APR 03 2017

Location

Loc Qty

Loc Code

GA

373

m134676

373

ST260a

1000

m136986

1000

ST266

58

m136182

58

NAS1149F0532P

Purchased

No

110

Each

1,607.000

4

4

NAS1149F0532P

Washer

**

APR 03 2017

Location

Loc Qty

Loc Code

ST260a

600

m133725

600

ST262

1007

18057

1007

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																		
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			QC / QA Coordinator Approval																																																																			
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Environment ☐	☐ No Re-verification																																																																					
Design ☐	☐ Operator																																																																					
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☐ Turning Sequence																																																																						
☐ OTHER : _____																																																																						

Picklist Print

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Page 24

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

601.2375 Manufactured No

110 Each 33.0000 3 3

601 2375

Washer

**

APR 03 2017

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK096

33

91708

33

3

600.1012 Purchased No

110 Each 16.0000 1 1

600 1012

Sealant PR1425B2 (#654 sem)

**

APR 03 2017

DAS 28 9-89

Location

Loc Qty

Loc Code

cck017

16

m136838

9

m1370073

7

601.2045 Purchased No

110 Each 13.0000 1 1

601 2045

RTV (LOCTITE 598) McMaster p/n: 6641A41

**

APR 03 2017

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK096

5

m136902

5

GA

8

m134260

8

600.0991 Purchased No

110 Each 30.0000 1 1

600 0991

Magnabond 6398 Part B Size 112 ml

**

DAS 28 9-89

Location

Loc Qty

Loc Code

PKG

30

m136586

6

m136862

12

m137073

12

Tuesday, March 28, 2017 12:52:52 PM

Shop Packet Print

Page 24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER : _____							

Picklist Print

Page 25

Tuesday, March 28, 2017 12:52:52 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

600.0990

Purchased

No

110

Each

30.0000

1

1

600 0990

Magnabond 6398 Part A Size 112 ml

**

DAS
28
9-89

Location

Loc Qty

Loc Code

PKG

30

M136586

5

M136862

12

M137073

12

M134249

1

1/1/2017

647.7919

Manufactured

No

110

Each

0.0000

1

1

647 7919

Shim

NAS1149F0463P

Purchased

No

110

Each

420.0000

8

8

NAS1149F0463P

Washer

**

157799 APR 28 2017 DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

420

m127832

420

CR3523-4-3

Purchased

No

110

Each

46.0000

4

4

CR3523-4-3

Rivet

**

APR 03 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST317

46

m129764

46

APR 03 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐	

Picklist Print

Page 26

Tuesday, March 28, 2017 12:52:53 PM

Work Order ID: 158624

158624

Parent Item: 647.7301

647 7301

Parent Item Name: EC135 T1/P1 Cable Cutters System

Start Date: 4/3/2017

Required Date: 4/24/2017

Start Qty: 1.00

Required Qty: 1.00

CR3523-4-4

Purchased

No

110

Each

113.0000

24

24

CR3523-4-4

**

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

m127255

100

ST318

13

124259

13

CR3523-5-3

Purchased

No

110

Each

52.0000

8

8

CR3523-5-3

**

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST317

52

m134962

52

APR 03 2017

DAS
6
9-89

DAS
28
9-89

APR 03 2017

DAS
6
9-89

DAS
28
9-89

Tuesday, March 28, 2017 12:52:53 PM

Shop Packet Print

Page 26

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

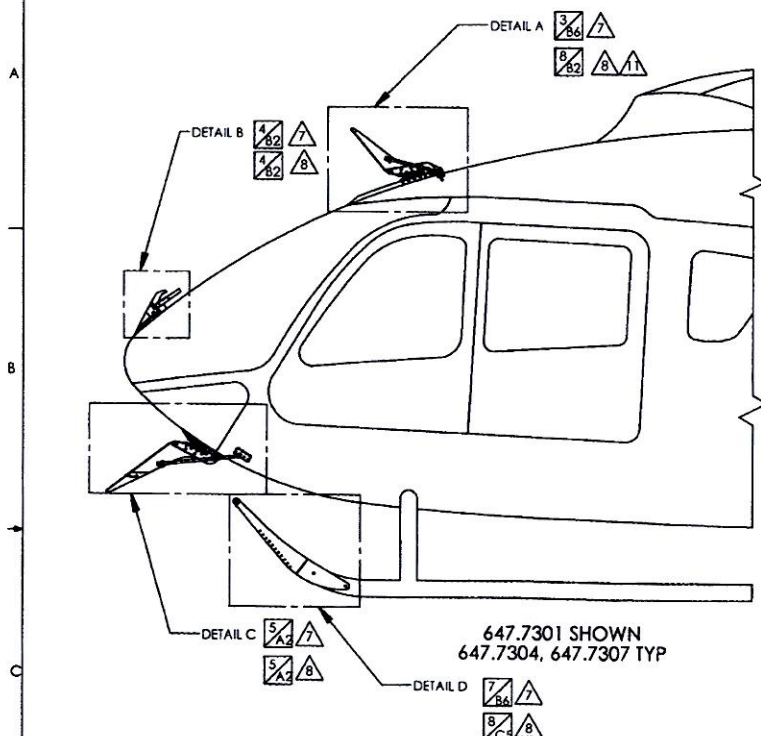
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

REFERENCE OF

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647.7301 SHOWN
647.7304, 647.7307 TYP

1	2	3	4	5	6	7	8
1		111	647.1405	CUTTER ASSY (UPPER)			
2	2	110	601.3902	EYE BOLT			
2	2	109	601.2910	SCREW	MS27039-1-18		
4	4	108	601.3963	BOLT	93635-A212		
8	8	107	601.3654	BOLT	UN9037-08C18		
8	8	106	601.3655	LOCK WASHER	UN9025-0820K		
2	2	105	647.1702	SKID DEFLECTOR ASSY			
8	8	104	601.3214	CHERRY RIVET	CR3322-4-3		
24	24	103	601.3213	CHERRY RIVET	CR3322-4-4		
4	4	102	601.3212	CHERRY RIVET	CR3322-4-3		
5	5	101	601.1541	LOCKNUT	MS21042-08		
5	5	100	601.2765	SCREW	MS27039-0819		
1	1	98	647.2114	UPPER U CHANNEL			
1	1	97	647.7823	CROSS BRACKET AFF			
1	1	96	647.5701	GPS MOUNT KIT			
7307	7304	7301	FIND #	PART #	DESCRIPTION	MATL	SPEC

		8	95	601.1097	WASHER	NAS114990463P	
			94	647.7919	SHIM		
A/R	A/R	A/R	93	600.0990	MAGNOBOND 6398 PART A		
A/R	A/R	A/R	92	600.0991	MAGNOBOND 6398 PART B		
A/R	A/R	A/R	91	601.2045	RTV	LOCKTITE 998	
A/R	A/R	A/R	90	600.1012	SEALANT	PR-1425 CLASS 8	
3	3	3	89	601.2375	WASHER		
4	4	4	88	601.3126	WASHER	NAS114990532P	
12	12	8	87	601.3663	WASHER	NAS114990432R	
89	89	84	86	601.1607	WASHER	NAS114990332P	
25	25	14	85	601.2764	WASHER	NAS114990832P	
2	2	2	84	601.3136	CHERRY RIVET	CR3212-5-6	
8	8	8	83	601.3215	CHERRY RIVET	CR3522-5-3	
8	8	8	82	601.3216	CHERRY RIVET	CR3522-4-3	
12	12	12	81	601.2481	CHERRY RIVET	CR3213-5-4	
16	16	16	80	601.2020	CHERRY RIVET	CR3213-5-3	
17	17	17	79	601.2991	CHERRY RIVET	CR3213-4-6	
8	8	8	78	601.1183	CHERRY RIVET	CR3213-4-5	
16	16	16	77	601.1915	CHERRY RIVET	CR3213-4-4	
24	24	24	76	601.0790	CHERRY RIVET	CR3213-4-3	
4	4	4	75	601.1604	CHERRY RIVET	CR3213-4-2	
4	4	4	74	601.1983	NUTPLATE RIVET	CCR27455-3-03	
24	24	24	73	601.2207	NUTPLATE RIVET	CCR26455-3-03	
3	3	3	72	601.2999	SCREW		
5	5	6	71	601.2829	SCREW	MS24694554	
2	2	2	70	601.1954	SCREW	MS27039-1-17	
4	4	4	69	601.2637	SCREW	MS27039-1-16	
1	1	1	68	601.3012	SCREW	MS27039-1-15	
4	4	4	67	601.1622	SCREW	MS27039-1-14	
2	2	2	66	601.1953	SCREW	MS27039-1-12	
6	6	6	65	601.1365	SCREW	MS27039-1-10	
12	12	12	64	601.3069	SCREW	MS27039-1-09	
3	3	3	63	601.2198	SCREW	MS27039-1-07	
		2	62	601.3137	SCREW	MS27039-0816	
4	4	4	61	601.2988	SCREW	MS27039-0813	
1	1	1	60	601.2525	SCREW	MS27039-0807	
4	4	4	59	601.3127	LOCKNUT	MS21042L5	
2	2	2	58	647.8512	INSERT		
4	4	4	57	647.8511	INSERT		
20	20	18	56	647.8510	INSERT		
4	4	4	55	601.3128	NUT	AN316C4R	
4	4	8	54	601.3209	LOCKNUT	MS21042L4	
35	35	34	53	601.2943	LOCKNUT	MS21042-3	
5	5	7	52	601.2973	LOCKNUT	MS21042-08	
		4	51	601.3002	BOLT	NAS6604-66	
7307	7304	7301	FIND #	PART #	DESCRIPTION	MATL	SPEC

ORIGINAL DATE
11/24/09
DRAWN BY
A. GHAM
CHECKED BY
D. BARNER
DRAWING APPROVAL
P. BRAY
DATE
01/15/10
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

3030 ENTERPRISE CT.
SUITE A
VISTA, CA. 92081
(760) 724-5300
APICAL INDUSTRIES, INC.
DBA DART AEROSPACE

EC135 CABLE CUTTERS KIT

SCALE NONE SHEET 2 OF 8

Work Order ID 158624***158624***

Page 1

Wednesday, March 29, 2017 11:42:22 AM

Item ID: 647.7301 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC135 T1/P1 Cable Cutters System
Start Date: 4/3/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 4/24/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULE/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	C								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7301								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
21
9-89

MAR 29 2017